Fractions-Decimals-Percents Statistics and Probability: Probability MA.01.SPP.01.02 MA.04.NSF.01.03 Understands the concept of a probability model and Understands decimal notation for fractions with a denominator of 10, uses it to find probabilities of simple events 100 and 1000 Is skilled at finding probabilities of compound events Understands the relationship between tenths and hundredths place in using organized lists, tables, tree diagrams, and fractions and decimals simulation. Understands how to describe events as subsets of a sample space using the categories of the outcomes. MA.05.NSF.01.02 Is skilled at addition and subtraction of decimals to hundredths place Is skilled at addition and subtraction of decimals to thousandths place **Measurement Tools of Measurement** MA.06.NSF.01.02 MA.05.MME.01.01 MA.07.MME. Is skilled at addition and subtraction of fractions with unlike Is skilled at 01.01 06.MME. denominators measuring liquid Understands 01.01 volume and weight how to use Understand Is skilled at addition and subtraction of mixed numbers measurement s the Understands when conversions to relationship Is skilled at renaming fractions to the simplest form to use the solve real among units appropriate world of measure measurement tool problems. for liquid volume or weight MA.07.NSF.01.02 Is skilled at multiplying fractions Understands division of a unit fraction by a whole number and a whole number by a unit fraction Statistics and Probability: Data Analysis Understands fraction word problems with addition, subtraction and multiplication by whole number Understands division of a fraction by a fraction MA.06.SDA.01.02 MA.05.SDA. Is skilled at MA.04.SDA. 03.01 representing and 02.01 Is skilled at interpreting data in Is skilled at representing boxplots representing and interpreting Is skilled at multiplication, and division of decimals to hundredths Is skilled at interpreting pie data on a line place representing and charts (circle graph interpreting data in graphs). (timeplot). stemplots MA.09.NSF.01.02 MA.08.SDA.01.02 Understands the relationships among fractions, decimals and percent MA.07.SDA.01.02 Is skilled at summarizing numerical Is skilled at data sets by giving quantitative Understands the concepts of proportion and ratio representing and measures including median, mean, interpreting data in and inter-quartile range Is skilled at finding the percent of a quantity histograms Understands how to choose the appropriate visual representation for the given data set Is skilled at solving word problems with proportional relationships, ratios, and percents Adopted 5/23/12

Number & Quantity MA.07.NQN. 01.02 MA.05.NQN.01.02 MA.06.NQN. Understands Understands the rules of 01.02 the relationship 02.NQN. exponents (i.e power of 03.NQN. 01.02 Is skilled at 01.01 between product, product of a Is skilled at 01.02 Is skilled at basic rational and power) Is skilled at operations on operations adding and irrational multiplying using scientific rational subtracting numbers Understands the and dividing notation numbers integers relationship between integers multiplication and positive exponents Understands the relationship between Algebra - Interpreting multiplication and **Functions Algebra - Building Functions** negative exponents MA.01.AIF.02.02 MA.01.ABS.01.02 Understands that a function is a rule that assigns to each Understands the relationship between independent and input (domain) exactly one output (range) dependent variables as representative of real-life situations Understands the concepts behind rate of change, average Understands how to connect the independent and dependent rate of change, and initial value for a linear function with variables with an equation regards to the given situation it models Algebra - Expressions, Equations & Inequalities MA.04.AEE.01.02 MA.02.AEE.01.02 Understands how to apply MA.03.AEE.03.02 MA.01.AEE.01.02 Is skilled at solving an properties of operations (i.e. Is skilled at converting between Is skilled at solving one equation or inequality as a commutative, associative, step equations using written and numerical process of substitution that etc.) to add, subtract, factor expressions and equations. rational numbers makes the statement true (numbers), expand (distributive property) linear Understands how to evaluate an Is skilled at solving Understands the solution to expressions with rational algebraic expression (including one-step inequalities an inequality results in an coefficients exponents) given specific values using rational infinite set of answers as for the unknown numbers. plotted on a number line Geometry - 2D & 3D Properties & Attributes MA.06.GAP.01.02 MA.08.GAP.01.02 MA.07.GAP.01.01 Understands how to use facts about Understands that a two-Understands that a twosupplementary, complementary, vertical, dimensional figure is similar to dimensional figure is and adjacent angles in a multi-step another if the second can be congruent to another if the obtained from the first by a second can be obtained from sequence of rotations, the first by a sequence of Understands angle relationships such as reflections, translations, and rotations, reflections, and parallel lines cut by a transversal, angle dilations; translations: sum and exterior angles of a triangle. **Geometry - Measurement** MA.08.GME.01.02 Understands how to MA.05.GME.02.02 Is skilled at finding volume using unit MA.06.GME.01.02 find surface area of MA.07.GME.02.01 Is skilled at finding three dimensional Is skilled at finding area of triangles area and figures using nets Understands the relationship between parallelograms circumference of made up of triangles unit cubes and the formula for finding trapezoids and circles and rectangles volume of a right rectangular prism polygons with whole number edge lengths